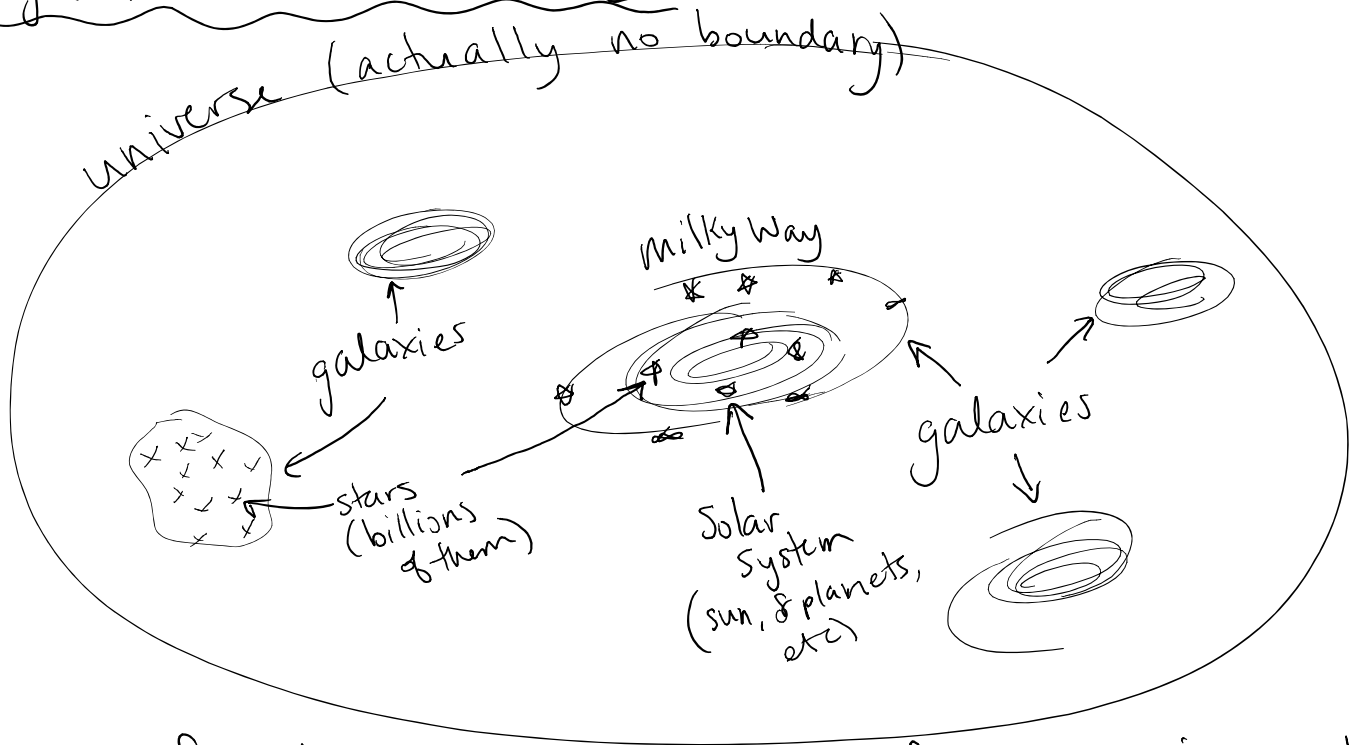


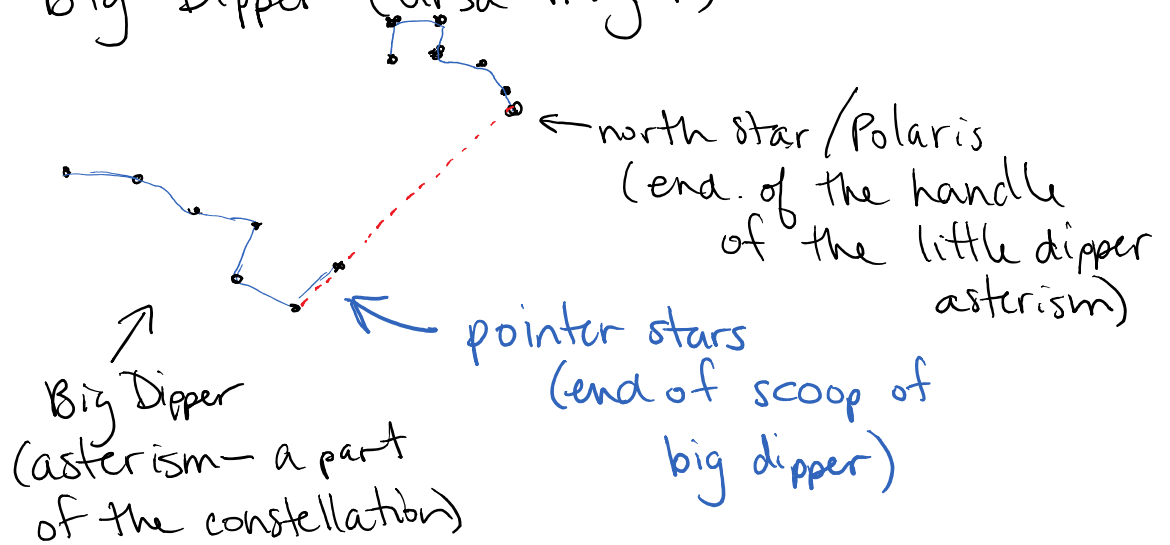
## Diagram of the universe



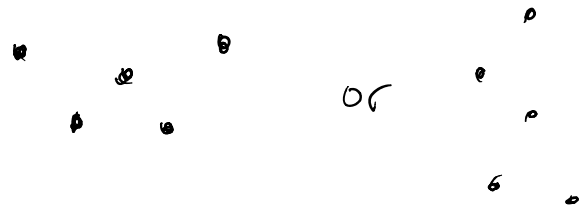
Billions of galaxies with billions of stars in each, and many/most stars have planets orbiting around them.

1. Galaxy - a group of billions of stars that are bound together by gravity
2. Constellation - a group of a few points of light in the sky (usually stars) that appear to form a picture.
  - 4 main constellations
  - a) Little Dipper (Ursa Minor)

## b) Big Dipper (Ursa Major)



## c) Cassiopeia



◦ ◦ ← shoulders

## d) Orion

◦ ◦ ◦ ← belt

◦ ◦ ← feet  
Orion nebula

- constellations used by sailors to navigate
- ⊕ (Earth) rotates from West to East so the sky appears to move E to W (ie the sun, moon, stars rise in the east and set in the west)
- Circumpolar star trails - N star stay at the centre since our axis of rotation points at it.



— we see different constellations at diff. times of year due to ----  $\oplus$ 's position around the sun



← night  $\oplus$   
← winter



$\oplus$  night →  
summer →